

Governor's Health Sciences Academy

Monticello High School



Rationale

- Increasing Opportunities for Health and Medical Careers
- Fastest growing occupations that will generate
 3.2 million new wage and salary jobs between
 2008 and 2018.
- Labor projections in the Charlottesville area
 - Healthcare Practitioner & Technical Occupations (8,104 job openings)
 - Health Support Occupations between 2008 and 2018 (4,478 job openings)

Public Schools

Participating High Schools

Albemarle County Public High Schools:

- Albemarle HS
- Monticello HS
- Western HSAlbemarle HS







Goals



- Students will be exposed to and explore health-related career opportunities.
- Students will build a strong foundation and understanding of Anatomy and Physiology.
- Students engage in a collaborative learning environment with students who share similar career interests.
- Division Goals:
 - Prepare students for success in a Global Community
 - Establish Centers of Excellence



Health Science Career Pathways

- Pathways to be implemented in 2013-2014:
 - Biotechnology Research and Development
 - Therapeutic Services
- Pathways to be implemented in the next three years:
 - Health Informatics (2014-15)
 - Diagnostic Services (2015-17)
 - Support Services (2016-17)





Work Based Learning & Other Experiences

- Internships
- Job Shadowing
- Classroom Speakers
- Business and Industry Tours
- Clinical Experience







Partnerships







Redefining Community Healthcare



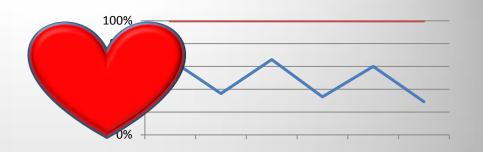




Battelle

The Business of Innovation





Governor's Health Sciences Academy Proposal

Chesterfield County Public Schools

April 25, 2013



Rationale

Health Care Industry

National: 3.2 million new wage and salary positions by 2018 (*Bureau of Labor Statistics Career Guide to Industries*)

State: Growth trend of 3.1% annually over the next ten years compared with a 1.7% rate for all other industries (*Chmura Economics & Analytics 2012 Report for Secretary of Education Fornash*)

Regional: Chmura Economics & Analytics forecasts that the Richmond area will see health care jobs grow faster than the regional average for all other job categories.

Why a CCPS Governor's Health Sciences Academy?

- Meet demands/desire for increased rigor with an instructional and career focus (relevance)
- Opportunity to push students toward Dual Enrollment and Advanced Placement
- Coordinate and optimize resources and facilities to better serve more students and families
- Support the push for providing better qualified candidates for health-science related work and higher education settings

Plan: One Governor's Academy



Three Sites



Cosby High School



Monacan High School





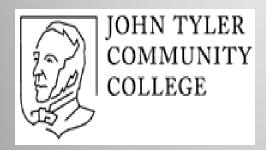
Chesterfield Technical Center



Goals

- Advanced coursework in health-science area
- Overview of health-science career options
- Enhanced academic skills (such as oral and written coursework related to health-science topics in CORE English courses)
- Field experiences and community service work
- Knowledge to make a more informed decision and future education and career plans
- More students prepared to successfully major and work in health-science related fields after graduation

Chesterfield Health-Sciences Partnerships

















Outcomes



Graduate with:

- Enhanced 21st Century skills in areas like teamwork, communication, problem solving and use of career-related computer/technology
- Advanced Diploma with a career focus
- Transferable credits to higher education
- High School experience that student sees as relevant to his/her future plans and has service to others embedded as a central life theme
- Advantage over other students entering health science careers and educational venues



Park View High School (Mecklenburg)

> Randolph Henry High School (Charlotte)

Amelia High School

Brunswick High School

Greensville High School

Cumberland High School

Superintendent's Region 8

Buckingham High School

Halifax High School

Central High School (Lunenburg)

Bluestone High School (Mecklenburg)

Prince Edward High School





Governor's Health Sciences Academy Proposal

An academic program that combines coursework and research experience with a challenging and focused school and college environment to prepare students for 21st Century careers in the health sciences.





Rationale

- Employment in the medical office assisting field is expected to grow 21 percent in the next ten years (Bureau of Labor Statistics) due to the aging population.
- The Virginia Employment Commission predicts that an additional 35.4 percent of healthcare and social assistance workers will be needed by 2020.
- In Region 8, 93,531 workers in healthcare are now 55 and older and will be retiring soon.
- Out of the 50 largest employers in Region 8, nine are either hospitals or nursing homes.
- The increase use of electronic records will increase the need for technicians to organize and manage information.

Program Overview

- The Academy is designed to give students in grades 9-12 the opportunity to enroll in health sciences career pathways while incorporating work-based learning and other experiences such as internships, project-based activities, job shadowing, and Virginia's Workplace Readiness Skills for the Commonwealth
- The career pathways will prepare students for programs in Therapeutic Services, Diagnostic Services, Health Informatics, Support Services, and Biotechnology Research and Development leading to bachelor degrees, associate degrees, and industry certifications.





Goals/Performance Measures

- Increase the number of students who have a GPA of 3.0 over the next four years, using 2012-2013 academic data for the baseline.
- Increase the number of Academy students meeting the requirements of the Advanced Studies Diploma, taking dual enrollment courses, and earning industry certifications by 10% over the next four years.
- Increase the proportion of students completing a college and career curriculum in high school.
- Increase the number of postsecondary credits earned through Advanced Placement courses by 5% over the next four years.
- Ensure that 100% of students participate in the work-based experiences, through strong partnerships with businesses and organizations.
- 60% of Academy graduates will obtain employment within the identified career pathways and related occupations following postsecondary education.



Outcome Measurements

- To successfully complete the program, students must:
 - Maintain a 3.0 GPA
 - Take the required dual enrollment courses at the home school
 - Complete a health sciences work-based internship or job shadowing (minimum of 15 hours)
 - Complete courses with a specific pathway in health sciences
 - Earn an industry certification or at least 15 transferrable college credits







Program Partners



Southside Virginia Community College (SVCC)



- Local hospitals, nursing homes, and assisted living homes
- South Central Workforce Investment Board
- Piedmont Health District



- Southside Governor's School
- Superintendent's Region 8 school divisions:
 - Amelia, Brunswick, Buckingham, Charlotte,
 Cumberland, Greensville, Halifax, Lunenburg, Mecklenburg, Nottoway,
 Prince Edward



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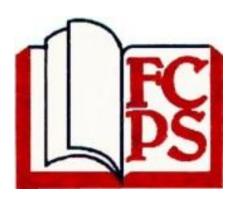
Falls Church Academy



Health and Human Sciences - Where Skilled Scholars Thrive



Governor's Health Sciences Academy



The Falls Church Governor's Health Sciences Academy

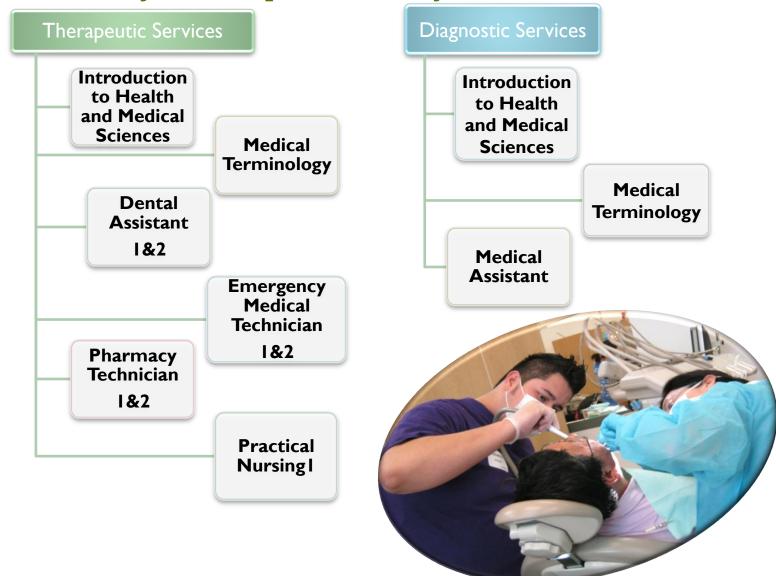
Objectives

- To promote student interest and achievement in Health Science careers
- Increase student enrollment in Academy classes
- Expand professional speakers, job shadow and internship opportunities
- Increase health science industry connections
- Produce individuals better trained to support the shortfall of health care employment needs

RATIONALE

- Healthcare sector employment is projected to increase to nearly 18.3 million jobs in 2020. Over 1 million of these jobs will be in the Northern Virginia area. (BLS Occupational Projections 2010-2020; Virginia Employment Commission, 2013)
- The total number of health care workers will increase by more than 4.7 million between 2010 and 2020. In addition, another 2.7 million health care workers will be needed to replace individuals expected to leave their jobs due to retirement and attrition. (BLS Occupational Projections 2010-2020)
- Inova Health Systems is the 4th largest employer in Northern Virginia and the 13th largest employer in the state.(Virginia Employment Commission, 2013)
- Ten of the top 30 largest employers in Virginia are related to health care services. (Virginia Employment Commission, 2013)

Falls Church Governor's Health Sciences Academy Health Science Cluster Fully Developed Pathways and Courses



Falls Church Governor's Health Sciences Academy Health Science Cluster Pathways and Course Timeline

Health Informatics 2013-14

- Computer Solutions (6609)
- Digital Input Technologies (6160)
- Foundational Health and Medical Sciences courses
- Pharmacy Technician 1& 2 (8305, 8306)

Support Services 2014-15

- Computer Solutions (6609)
- Digital Input Technologies (6160)
- Foundational Health and Medical Sciences courses
- Advanced Computer Systems (6613)
- Entrepreneurship (9093) or Leadership Development (9808)

Biotechnology Research and Development 2015-16

- Computer Solutions (6609)
- Digital Input Technologies (6160)
- Foundational Health and Medical Sciences courses
- Biomedical Technician (8347)
- Biotechnology Foundations (9050)

PERFORMANCE MEASURES

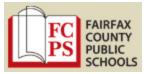
- Student grade reports
- Academy partnership records
- Mentor/Partner assessment report
- Student enrollment report
- Number of industry credentials earned (309 in 2011-12)
- Internship and job shadowing experiences (113 in 2011-12)
- CTE Follow-Up Survey Data
- Academy student/teacher/partner surveys
- Planning and Advisory Committee review

Falls Church Governor's Health Sciences Academy

- The only location within Fairfax County Public Schools to offer the Emergency Medical Technician Level 1 & 2 course.
- Continually provides external support for the Practical Nursing Level 1 program through recruitment, career experience opportunities, and administrative needs.
- In house special needs pre-school provides students with opportunities for authentic learning.

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Northern Virginia Community College



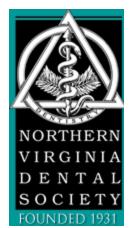




















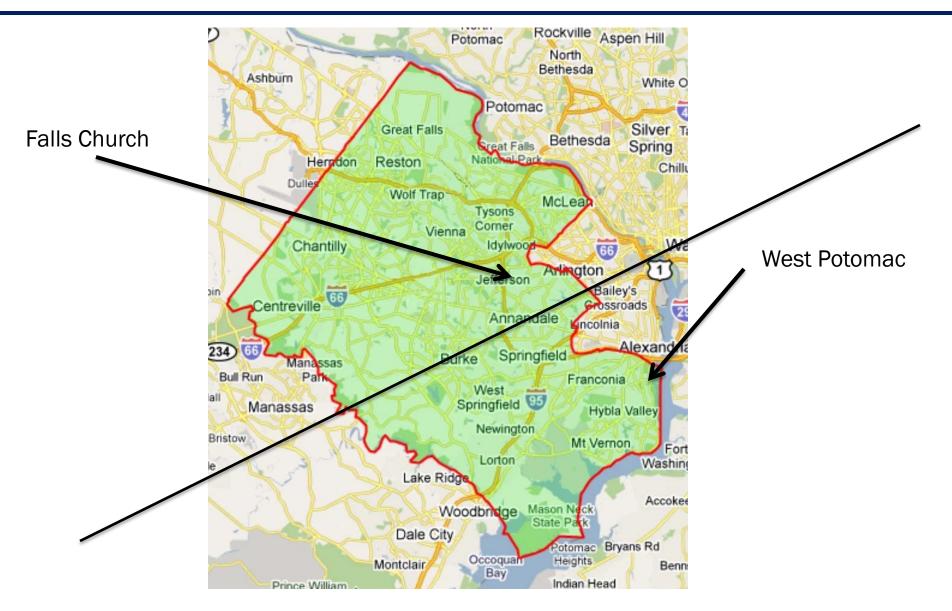
Building Blocks for Success.



GOVERNOR'S HEALTH SCIENCES ACADEMY PROPOSAL



WHY TWO?



RATIONALE

By 2020 the health care sector employment is expected to increase by 18. 3 million jobs (BLS Occupational Projections 2010-2020)

They are projecting 2.7 million vacancies in the health care field due to retirements and attrition from the profession between 2010 – 2020 (BLS Occupational Projections 2010-2020)

In Virginia 13.8% of all jobs filled in the next four years are expected to be in the areas of STEM-H. That number increases to 23% in northern Virginia (Chmura, 2012)

SCHOOLS WE SERVE

Annandale High School

Centreville High School

Chantilly High School

Edison High School

Fairfax High School

Falls Church High School

Hayfield Secondary School

Herndon High School

Lake Braddock Secondary School

Langley High School

Lee High School

Madison High School

Marshall High School

McLean High School

Mount Vernon High School

Oakton High School

Robinson Secondary School

South County Secondary School

South Lakes High School

Stuart High School

Thomas Jefferson High School for

Science and Technology

West Potomac High School

West Springfield High School

Westfield High School

Woodson High School

Bryant Alternative Learning Center

Mountain View Alternative High

School

Landmark Career Academy

Woodson Adult High School

Career Centers

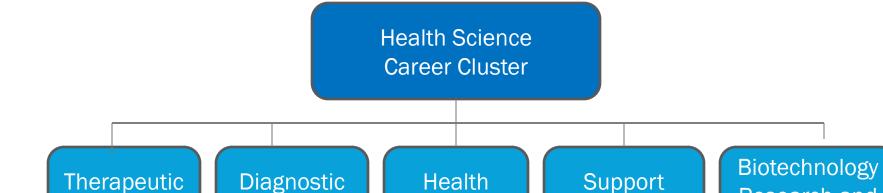
Davis Center

Pulley Center

Cedar Lane Center

Quander Road Center

WEST POTOMAC GOVERNOR'S HEALTH SCIENCES ACADEMY CAREER CLUSTERS, PATHWAYS, AND COURSES



•Introduction to Health Sciences

Services

- Medical
- Terminology
- Medical
- **Assistant**
- •Physical/Occupa tional Therapy 1 and 2
- •Dental Assistant 1 and 2

•Introduction

Services

- to Health
- Sciences
- Medical
- Terminology
- MedicalAssistant
- to Health
 Sciences
 •Medical
 Terminology
 •Pharmacy
 Technician 1
 and 2

Informatics

Introduction

•Introduction to Health

Services

- Sciences
 - MedicalTerminology

•Introduction to

Research and

Development

- Health
- Sciences
- Medical
- Terminology
- •Biotechnology
- Foundations
- •Biomedical Technician

PERFORMANCE MEASURES

- Student grade reports
- Number of industry certifications earned
- Postsecondary credits earned
- Internship and job shadowing student placements
- Division graduation index reports
- Student program enrollment reports
- CTE Follow-Up Survey Data
- Local Surveys (including 3-4 year follow-up)

ACADEMY PARTNERS

Business & Community Partners:

INOVA Health System Capital Caring Hospice & Palliative Care Walgreens Entertainment Industries Council (EIC) Greenspring

Annandale Chamber of Commerce Falls Church Chamber of Commerce Dominion Hospital

U.S. Dept of Homeland Security - United States Secret Service

County of Fairfax, VA

Fairfax County Police Department

Fairfax County Fire and Rescue Department

Fairfax County Sheriff's Office

Arlington County Fire Department

Sterling Fire and Rescue

Occoquan-Woodbridge-Lorton Fire and

Rescue

Prince William County Fire and Rescue -

Paramedics

International Association of Fire Fighters Falls Church Early Childhood Class Based

Special Education Center

Northern Virginia Dental Clinic

Mission of Mercy - Virginia Dental Association

Higher Education:

University of Maryland, School of Dentistry, Howard University, School of Dentistry, VCU School of Pharmacy, Inova Campus Northern Virginia Community College, Medical Education Campus (Dental, Nursing, Paramedic, PT/OT) Columbia University, School of Dentistry, School of Physical Therapy American Association of Colleges of Pharmacy George Mason University (Nursing)

Industry Professionals:

Paul Spring Retirement Community
Sunrise Senior Living
Wise Hospice Options
Dr. Jose Colon, Forensic Dentist
Dr. John Tsaknis, Dental Bug
Dr. Marvin Pizer, Oral MaxillofacialOncology
Dr. Adrian Patterson, Oral Maxillofacial
Surgery
Dr. Williams & Dr. Leaf, Pediatric Dentis

Dr. Williams & Dr. Leaf, Pediatric Dentist Harry McLaughlin, Patterson Dental Great Lakes Orthodontics Brett Brocki, Kodak Digital X-Ray/Front Desk Software Dr. Ellis, Orthodontist

Industry Professionals continued :

Dr. Steele, South County Public **Health Dentist** Dr. David Hughes, Orthodontist Prestopino Brothers, Dental Lab, Springfield Northern Virginia Mission of Mercy **Operation Smile** Back in Motion Physical Therapy **Bodies in Motion Physical** Therapy Select Physical Therapy **Physical Therapy Sports** Medicine Institute The Jackson Clinics Orthopedic Physical Therapy Manor Care of Arlington, Rehabilitation Department Anderson PT Clinics

Fairfax County Public School Partners:

Head Start Program Pre-School Centers Pulley Center Elementary Schools Middle Schools High Schools